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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,630	12/20/2005	Takeyuki Ajito	SIP-PT007	8280
3624 7590 10/08/2008 VOLPE AND KOENIG, P.C. UNITED PLAZA, SUITE 1600 30 SOUTH 17TH STREET PHILADELPHIA, PA 19103			EXAMINER BURLERSON, MICHAEL L.	
			ART UNIT 2625	PAPER NUMBER
			MAIL DATE 10/08/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/561,630

**Applicant(s)**

AJITO, TAKEYUKI

**Examiner**

MICHAEL BURLESON

**Art Unit**

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 5-10 and 13-15 is/are rejected.
- 7) ☒ Claim(s) 3, 4, 11 and 12 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☒ Information Disclosure Statement(s) (PTO/CIS-100)
- Paper No(s)/Mail Date 12/20/05.

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_.

## **DETAILED ACTION**

### ***Priority***

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d).

### ***Information Disclosure Statement***

1. The information disclosure statement (IDS) submitted on 12/20/2005 was filed. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1,2,5-10 and 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Johnson et al. US 6219099.
3. Regarding claim 1, Johnson teaches a correction data acquisition method for an image display device wherein an image is displayed with a plurality of primary colors, comprising the steps of: displaying an offset image with a black signal level at an image display section in said image display device (column 7, lines 20-26); capturing said

offset image by successively switching filters having bands corresponding to said plurality of primary colors, respectively, so as to acquire a multiband offset captured data (column 5, lines 50-54 and column 8, lines 3-7); sequentially displaying primary color images at said image display section, said primary color images having predetermined signal levels for the corresponding primary colors (column 5, lines 52-64); sequentially capturing said primary color images while switching said filters for the corresponding primary colors, so as to acquire multiband primary color captured data; displaying primary color scale images at said image display section, said primary color scale images having an input signal level that is gradually changed for each of the corresponding primary colors (column 5, lines 52-64); sequentially capturing said primary color scale images so as to acquire a primary color scale captured data (column 7, lines 4-14); and calculating an offset correction data based on said multiband offset captured data, said multiband primary color captured data, and said primary color scale captured data (column 11, lines 17-23).

4. Regarding claim 2, Johnson teaches a correction data acquisition method for an image display device wherein an image is displayed with a plurality of primary colors, comprising the steps of: displaying an offset image with a black level at an image display section in said image display device (column 7, lines 20-26); capturing said offset image simultaneously through filters for the corresponding primary colors, so as to acquire a multiband offset captured data (column 5, lines 50-54 and column 8, lines 3-7); sequentially displaying primary color images at said image display section, said primary color images having signal levels of the corresponding primary colors (column

5, lines 52-64); capturing said primary color images simultaneously through said filters for the corresponding primary colors, so as to acquire a multiband primary color captured data (column 5, lines 52-64); sequentially displaying gray scale images in said image display section, said gray scale images having gray scale signal levels (column 7, lines 4-14); simultaneously capturing said gray scale images through said filters for the corresponding primary colors, so as to acquire primary color scale captured data (column 8, lines 1-6); and calculating an offset correction data based on said multiband offset captured data, said multiband primary color captured data, and said primary color scale captured data (column 11, lines 17-23).

5. Regarding claim 5, Johnson teaches wherein the number of said primary colors is not less than three (column 5, lines 52-54).
6. Regarding claim 6, Johnson teaches wherein said image display section includes a plurality of projectors for projecting and displaying one image (figure 3).
7. Regarding claim 7, Johnson teaches wherein said filters are designed so as to allow transmission of a luminescence band ranges of a corresponding primary color and transmission of at least part of luminescence band ranges of the other primary colors (column 5, lines 22-25 and 45-54).
8. Regarding claim 8, Johnson teaches wherein a tunable filter is used as said filters, said tunable filter being electrically controllable so as to allow transmission of a luminescence band range of a corresponding primary color and transmission of at least part of luminescence band ranges of the other primary colors (column 5, lines 22-25 and 45-54).

9. Regarding claim 9, Johnson teaches a calibration system for an image display device including an image display section for displaying an image with a plurality of primary colors, comprising (column 7, lines 20-26): a calibration pattern generating section for selectively displaying, at said image display section, calibration patterns of an offset image at a black level, of primary color images at predetermined signal levels of the corresponding primary colors, and of the corresponding primary colors acquired by sequentially changing input signal levels of the corresponding primary colors (column 7, lines 4-14); an image capturing section which includes filters having bands for the corresponding primary colors and a through-hole, said filters being designed for allowing transmission of a luminescence band ranges of a corresponding primary color and transmission of at least part of luminescence band ranges of the other primary colors, said image capturing section being for capturing said calibration patterns displayed at said image display section, while selecting said filters or said through-hole (column 5, lines 22-25 and 45-54); and an image correction data calculating section for calculating offset correction data based on multiband offset captured data acquired by sequentially capturing said offset image with said image capturing section while switching said filters for the corresponding primary colors, multiband primary color captured data acquired by sequentially capturing said primary color images with said image capturing section while switching said filters for the corresponding primary colors, and primary color scale captured data acquired by sequentially capturing said primary color scale images with said image capturing section through said through-hole (column 11, lines 17-23).

10. Regarding claim 10, Johnson teaches a calibration system for an image display device including an image display section for displaying an image with a plurality of primary colors, comprising: a calibration pattern generating section for selectively displaying, at said image display section, calibration patterns of an offset image at a black level, of primary color images at predetermined signal levels of the corresponding primary colors, and of gray scale images acquired by sequentially changing input signal levels of the corresponding primary colors (column 7, lines 4-14); an image capturing section which includes filters having bands for the corresponding primary colors and a through-hole, said filters being designed for allowing transmission of a luminescence band ranges of a corresponding primary color and transmission of at least part of luminescence band ranges of the other primary colors, said image capturing section being for simultaneously capturing said calibration patterns displayed at said image display section, through said filters (column 5, lines 22-25 and 45-54); and an image correction data calculating section for calculating an offset correction data based on multiband offset captured data acquired by capturing said offset image with said image capturing section, multiband primary color captured data acquired by capturing said primary color images, and primary color scale captured data acquired by capturing said primary color scale images (column 11, lines 17-23).
11. Regarding claim 13, Johnson teaches wherein the number of said primary colors is not less than three (column 5, lines 52-54).
12. Regarding claim 14, Johnson teaches wherein said image display section includes a plurality of projectors for projecting and displaying one image (figure 3).

13. Regarding claim 15, Johnson teaches wherein said filters are designed so as to allow transmission of a luminescence band ranges of a corresponding primary color and transmission of at least part of luminescence band ranges of the other primary colors (column 5, lines 22-25 and 45-54).

***Allowable Subject Matter***

14. Claims 3,4,11 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

Any inquiry concerning this communication should be directed to Michael Burleson whose telephone number is (571) 272-7460 and fax number is (571) 273-7460. The examiner can normally be reached Monday thru Friday from 8:00 a.m. – 4:30p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler Haskins can be reached at (571) 272-7404

Michael Burleson  
Patent Examiner  
Art Unit 2625



Art Unit: 2625

/Michael Burleson/

Examiner, Art Unit 2625

/Edward L. Coles/

Supervisory Patent Examiner, Art Unit 2625

MLb

September 30, 2008